



## Detroit Healthy Environments Partnership Food Store Audit Instrument 2008

Date (mm/dd/yyyy):	Observer ID (1):	Observer ID (2):
Is the store on the assignment list?		If YES, Store ID (From Assignment):
Is it a "food store"?	If NO, How would you describe it?	
Store Name (From Assignment):		Corrections in Store Name:
Store Address (From Assignment):		Corrections in Store Address:
Store Operating Hours:		
Weekdays _____ AM to _____ PM		
Saturdays _____ AM to _____ PM		
Sundays _____ AM to _____ PM		
Start Time:		End Time:
Circle One: AM    PM		Circle One: AM    PM

The Healthy Environments Partnership (HEP <http://www.hepdetroit.org>) has been working together since 2000 to understand how the environment affects risk of heart disease and obesity. The HEP Lean and Green in Motown Project is funded by the National Institute of Environmental Health Science (R01 ES014234) and involves: Brightmoor Community Center, Friends of Parkside, Detroit Department of Health and Wellness Promotion, Detroit Hispanic Development Corporation, Henry Ford Health System, Rebuilding Communities Incorporated, and the University of Michigan School of Public Health and Architecture and Urban Planning. HEP is affiliated with the Detroit Community Academic Urban Research Center (<http://www.sph.umich.edu/urc>)

For more information contact Sharon Sand at 734-615-2695

Store ID: \_\_\_\_\_

## AVAILABILITY: FRESH FRUITS AND VEGETABLES

Does the store sell fresh fruit?	1. Yes	2. No
Does the store sell fresh vegetables?	1. Yes	2. No

	Available?		Available?		Available?
Apple (any variety)		Cactus/ Prickly Pear/ Nopales / Nopalitos		Green Beans	
Apricot		Cantaloupe / Musk Melon		Guava	
Arracacha		Carrot (any variety)		Honeydew Melon	
Artichoke		Cassava / Yucca / Manioc		Jackfruit	
Ash Gourd		Cauliflower		Jicama	
Asparagus		Celery		Kiwi	
Atemoya		Chard		Kohlrabi	
Avocado		Cherimoya / Chirimoya (Anona)		Leeks	
Badunga / Burr Gherkin		Cherries		Lemon	
Banana		Clementine		Lettuce, Endive / Belgian / Curly	
Banana, Manzana		Coconut		Lettuce, Iceberg	
Batata		Corn (on the cob)		Lettuce, Green Leaf	
Beet		Cucumber		Lettuce, Red Leaf	
Bitter Melon		Eggplant (Aubergine)		Lettuce, Romaine	
Blackberries		Feijoa		Lettuce (Other e.g., Mesculin, Boston)	
Blueberries		Fennel		Lime	
Bok Choy		Grapefruit		Lotus Root	
Borage		Grapes (any variety)		Malanga (Yautia)	
Breadfruit		Greens, Callaloo		Mamey (Sapote Mamey)	
Broccoli		Greens, Collard		Mango	
Broccolini		Greens, Dandelion		Mushroom	
Brussels Sprout		Greens, Kale		Nectarines	
Cabbage, Green or Red		Greens, Mustard		Nori / Seaweed	
Cabbage, Napa		Greens, Turnip		Okra	

Store ID: \_\_\_\_\_

	Available?		Available?		Available?
Onion (yellow/white)		Radicchio		Tangerine	
Onion (green)		Radish		Tomatillo	
Onion (red, shallot)		Raspberries		Taro Root (eddo, kalo)	
Orange (any variety)		Rhubarb		Tomato (any red/orange variety)	
Papaya		Ridge Gourd		Turnip	
Parsnips		Rutabaga		Ugli Fruit	
Passion Fruit / Granadilla		Sapodilla		Verdolaga	
Peach		Sapote / Zapote (white, black)		Water Chestnuts	
Pear (any variety)		Soursop / Guanabana		Watercress	
Peas (snap, green, snow)		Spinach		Watermelon	
Pepino Melon		Sprouts (alfalfa, bean)		Other:	
Pepper, Hot (e.g., banana, chile, poblano, serrano, jalepeno, chipotle)		Squash, Acorn		Other:	
Pepper, Green Bell		Squash, Buttercup		Other:	
Pepper, Orange Bell		Squash, Butternut		Other:	
Pepper, Red Bell		Squash, Chayote		Other:	
Pepper, Yellow Bell		Squash, Hubbard		Other:	
Persimmon		Squash, Spaghetti		Other:	
Pineapple		Squash, Yellow		Other:	
Plantain		Squash, Zucchini		Other:	
Plum (any variety)		Squash, Zucchini Mexican		Other:	
Pomegranate		Starfruit		Other:	
Potato (white)		Strawberries		Other:	
Potato, Sweet / Yam		Sunchokes		Other:	
Pumpkin		Tamarillo		Other:	
Quince		Tangelo		Other:	

## PRICE: FRESH FRUITS AND VEGETABLES

ITEM	PRICE (LOWEST COST)	UNIT AT STORE (Circle one and indicate quantity)
Apples, non-bagged	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/apple
Bananas, non-bagged	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/banana
Broccoli bunch, not crowns	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/bunch
Cabbage, green head	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/head
Carrots, whole bag, not baby	\$  _ . _ _ _	1. Per ____ pound bag 2. ____ bags at ____ pounds each
Grapes, red seedless	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/bag
Green bell pepper	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/pepper
Iceberg lettuce (head)	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/head
Mango, non-bagged	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/mango
Oranges, navel, non-bagged	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/orange
Strawberries package	\$  _ . _ _ _	1. Per ____ pound package 2. ____ packages at ____ pounds each
Tomatoes, regular, non-bagged	\$  _ . _ _ _	1. Per ____ pound 2. Per ____ item/tomato

Store ID: \_\_\_\_\_

## AVAILABILITY AND PRICE: CANNED OR JARRED FRUITS

Does the store sell canned fruit?	1. Yes	2. No	<b>[SKIP AHEAD]</b>
How many varieties of canned fruit?	1. 1-5	2. 6+	

	AVAILABLE	NOT AVAILABLE	SIZE (For Price)	QUANTITY FOR PRICE (LOWEST COST)
Apricots			Size: _____	_____ for \$  __ .  __  __
Mangos			Size: _____	_____ for \$  __ .  __  __
Oranges			Mandarin Size: _____	_____ for \$  __ .  __  __
Peaches			Halves, sliced Size: _____	_____ for \$  __ .  __  __
Pear			Size: _____	_____ for \$  __ .  __  __
Pineapple			Chunks, 20 oz Size: _____	_____ for \$  __ .  __  __

## AVAILABILITY AND PRICE: CANNED VEGETABLES

Does the store sell canned vegetables?	1. Yes	2. No	<b>[SKIP AHEAD]</b>
How many varieties of canned vegetables?	1. 1-5	2. 6+	

	AVAILABLE	NOT AVAILABLE	SIZE (For Price)	QUANTITY FOR PRICE (LOWEST COST)
Carrots			Cut Size: _____	_____ for \$  __ .  __  __
Corn			Sweet, whole kernel Size: _____	_____ for \$  __ .  __  __
Green beans			Regular cut Size: _____	_____ for \$  __ .  __  __
Sweet peas			Size: _____	_____ for \$  __ .  __  __
Spinach			13-16 oz. Size: _____	_____ for \$  __ .  __  __
Tomatoes			Whole Size: _____	_____ for \$  __ .  __  __

Store ID: \_\_\_\_\_

## AVAILABILITY AND PRICE: CANNED BEANS

	AVAILABLE	NOT AVAILABLE	SIZE (For Price)	QUANTITY FOR PRICE (LOWEST COST)
Black beans			Size:	_____ for \$  __ . __  __
Black-eyed peas			Size:	_____ for \$  __ . __  __
Garbanzo beans (chickpeas)			Size:	_____ for \$  __ . __  __
Red or white kidney beans			Red kidney Size:	_____ for \$  __ . __  __
Pinto beans			Size:	_____ for \$  __ . __  __
Red beans			Size:	_____ for \$  __ . __  __

## AVAILABILITY AND PRICE: DRIED BEANS

	AVAILABLE	NOT AVAILABLE	QUANTITY FOR PRICE (LOWEST COST)
Black beans			_____ for \$  __ . __  __
Black-eyed peas			_____ for \$  __ . __  __
Garbanzo beans (chickpeas)			_____ for \$  __ . __  __
Red or white kidney beans			Red kidney _____ for \$  __ . __  __
Pinto beans			_____ for \$  __ . __  __
Red beans			_____ for \$  __ . __  __

## AVAILABILITY AND PRICE: GRAINS

	AVAILABLE	NOT AVAILABLE	Size (For Price)	QUANTITY FOR PRICE (LOWEST COST)
100% whole wheat <u>bread</u>			24-oz loaf (1 ½ lb. loaf)	_____ for \$  __ .  __   __
White <u>bread</u>			20-oz loaf (1 ¼ lb. loaf)	_____ for \$  __ .  __   __
<b>High fiber bread</b> (3+ g fiber per serv.)				
Brown <u>rice</u> , long or extra-long grain			2 lb. bag or box	_____ for \$  __ .  __   __
<b>White rice</b> , long or extra-long grain, enriched			2 lb. bag or box	_____ for \$  __ .  __   __
100% whole wheat <u>pasta</u>			Spaghetti 1 lb. box	_____ for \$  __ .  __   __
White <u>pasta</u>			Spaghetti 1 lb. box	_____ for \$  __ .  __   __
Whole wheat or whole grain "blend" <u>pasta</u> (3+ g fiber per serv.)				
100% whole wheat <u>tortilla</u>			10-14 oz. Size:	_____ for \$  __ .  __   __
Corn tortilla			10-12 oz. Size:	_____ for \$  __ .  __   __
Flour tortilla			10-14 oz. Size:	_____ for \$  __ .  __   __
High <i>fiber cereal</i> (3+ g fiber per serv.)			Raisin bran 20 oz. box	_____ for \$  __ .  __   __
<b>Other cold cereal</b> (0-5 g sugar per serv.)			Corn flakes 18-20 oz. box Size:	_____ for \$  __ .  __   __
<b>Sweetened cereal</b> (6+ g sugar per serv.)			Frosted flakes 17-20 oz. box Size:	_____ for \$  __ .  __   __

Store ID: \_\_\_\_\_

## AVAILABILITY: OTHER "SHELVED" PRODUCTS

	AVAILABLE	NOT AVAILABLE	QUANTITY FOR PRICE (LOWEST COST)
100% <u>tomato</u> OR <u>V-8</u> juice			V8 (regular): 46 oz. bottle  _____ for \$  __ .  __   __
Diet <u>soda</u>			
Regular <u>soda</u>			
Low fat salad dressing (0-3 g fat per serv.)			
Regular salad dressing (>3 g fat per serv.)			
Low fat snack <u>chips</u> or pretzels (0-3 g fat per serv.)			
<b>Regular snack</b> <b>chips</b> (potato, tortilla, Doritos, Fritos, popcorn—popped) (>3 g fat per serv.)			
Low fat breakfast <u>bars</u> , cereal bars, or granola bars (0-3 g fat per serv.)			
Regular breakfast <u>bars</u> , cereal bars, or granola bars (>3 g fat per serv.)			
Low fat <u>cookies</u> (0-3 g fat per serv.)			
Regular <u>cookies</u> (>3 g fat per serv.)			

## AVAILABILITY AND PRICE: FROZEN FRUITS

Does the store sell frozen fruit?	1. Yes	2. No	<b>[SKIP AHEAD]</b>
How many varieties of frozen fruit?	1. 1-5	2. 6+	

	AVAILABLE	NOT AVAILABLE	Size (For Price)	QUANTITY FOR PRICE (LOWEST COST)
Blueberries			Size:	_____ for \$  __ . __  __
Mangos			Size:	_____ for \$  __ . __  __
Peaches			Size:	_____ for \$  __ . __  __
Mixed berries			Size:	_____ for \$  __ . __  __
Raspberries			Size:	_____ for \$  __ . __  __
Strawberries			Size:	_____ for \$  __ . __  __

## AVAILABILITY AND PRICE: FROZEN VEGETABLES

Does the store sell frozen vegetables?	1. Yes	2. No	<b>[SKIP AHEAD]</b>
How many varieties of frozen vegetables?	1. 1-5	2. 6+	

	AVAILABLE	NOT AVAILABLE	Size (For Price)	QUANTITY FOR PRICE (LOWEST COST)
Broccoli			Cut Size:	_____ for \$  __ . __  __
Carrots			Cut Size:	_____ for \$  __ . __  __
Collard greens			Size:	_____ for \$  __ . __  __
Corn			Sweet, whole kernel Size:	_____ for \$  __ . __  __
Green beans			Regular cut Size:	_____ for \$  __ . __  __
Spinach			Size:	_____ for \$  __ . __  __
Sweet peas			Size:	_____ for \$  __ . __  __

Store ID: \_\_\_\_\_

AVAILABILITY AND PRICE: FRESH MEATS

Does the store sell <u>fresh</u> meat or fish?	1. Yes	2. No
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ITEM	AVAILABLE	NOT AVAILABLE	PRICE (LOWEST COST) Per pound	COMMENTS	OUTDATED? (Circle One)
Boneless, skinless <u>chicken</u> breast			\$  _ . _   _		1. Yes 2. No
Split <u>chicken</u> breast with skin			\$  _ . _   _		1. Yes 2. No
Extra lean <u>ground beef</u> (95-100% lean, 0-5% fat)					
Lean <u>ground beef</u> (90-94% lean, 6-10% fat)			\$  _ . _   _		1. Yes 2. No
Regular <u>ground beef</u> (80% lean, 20% fat)			\$  _ . _   _		1. Yes 2. No
Other ground beef: Fat grams per serv:			\$  _ . _   _		1. Yes 2. No
Other ground beef: Fat grams per serv:			\$  _ . _   _		1. Yes 2. No
Other ground beef: Fat grams per serv:			\$  _ . _   _		1. Yes 2. No
<b>Extra lean <u>ground turkey</u></b> (95-100% lean, 0-5% fat)					
<b>Lean <u>ground turkey</u></b> (90-94% lean, 6-10% fat)			\$  _ . _   _		1. Yes 2. No
Ground turkey (80% lean, 20% fat)			\$  _ . _   _		1. Yes 2. No
Other ground turkey: Fat grams per serv:			\$  _ . _   _		1. Yes 2. No
Other ground turkey: Fat grams per serv:			\$  _ . _   _		1. Yes 2. No

Store ID: \_\_\_\_\_

AVAILABILITY AND PRICE: DAIRY AND REFRIGERATED

ITEM	AVAILABLE	NOT AVAILABLE	SIZE (For Price)	QUANTITY FOR PRICE (LOWEST COST)	OUTDATED? (Circle one)
Fat free (skim) <u>milk</u>			Gallon	_____ for \$  __ . __  __	1. Yes 2. No
1% <u>milk</u>			Gallon	_____ for \$  __ . __  __	1. Yes 2. No
Whole <u>milk</u>			Gallon	_____ for \$  __ . __  __	1. Yes 2. No
Low fat <u>yogurt</u> (0-3 g fat per serv.)			6 oz.	_____ for \$  __ . __  __	1. Yes 2. No
Is any of this yogurt fat free (0 g fat per serv.)?					
Regular (whole milk) <u>yogurt</u> (>3 g fat per serv.)			6 oz.	_____ for \$  __ . __  __	1. Yes 2. No
Low fat <u>cheese</u> (0-3 g fat per serv.)			Shredded cheddar, 8 oz. bag	_____ for \$  __ . __  __	1. Yes 2. No
Is any of this cheese fat free (0 g fat per serv.)?					
Regular <u>cheese</u> (>3 g fat per serv.)			Shredded cheddar, 8 oz. bag	_____ for \$  __ . __  __	1. Yes 2. No
100% orange juice			64 oz. (Half Gallon)	_____ for \$  __ . __  __	1. Yes 2. No
Low fat <u>soy</u> <u>milk</u> or Lactaid (0-3 g fat per serv.)					
Regular <u>soy</u> <u>milk</u> or Lactaid (>3 g fat per serv.)					

ITEM	AVAILABLE	NOT AVAILABLE
Regular hot dogs (>3 g fat per serv.)		
Low fat <u>hot dogs</u> (0-3 g fat per serv.)		
Regular lunch meats (>3 g fat per serv.)		
Turkey or low fat <u>lunch meats</u> (0-3 g fat per serv.)		

Does the store accept...	<ol style="list-style-type: none"> <li>1. WIC coupons</li> <li>2. Food stamps /Bridgecard / "E.B.T"</li> <li>3. Neither</li> </ol>
How many operational cash registers does the store have (in the main check-out area)?	_____ registers
Do any of the check-out lanes carry candy or gum?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>
Are any of these health promotion signs in the store? <i>(Mark all that apply)</i> <ol style="list-style-type: none"> <li>1. 5-A-Day (fruits and vegetables)</li> <li>2. Nutritional information</li> </ol>	<ol style="list-style-type: none"> <li>3. Food guide pyramid or My Pyramid</li> <li>4. Healthy recipes</li> <li>5. Fruits and Veggies-More Matters</li> <li>6. None of the above</li> </ol>
Does the store have any of the following? <i>(Mark all that apply)</i> <ol style="list-style-type: none"> <li>1. Fresh meat or poultry section</li> <li>2. Butcher</li> <li>3. Fresh produce section</li> <li>4. Deli section</li> </ol>	<ol style="list-style-type: none"> <li>5. Bakery</li> <li>6. Carry out food (prepared foods)/fast food/café</li> <li>7. Pharmacist</li> <li>8. Gas station</li> <li>9. None of the above</li> </ol>
What is the primary product for sale? <i>(Mark one)</i> <ol style="list-style-type: none"> <li>1. Meat or seafood</li> <li>2. Fruits &amp; vegetables</li> <li>3. Medications (drug store or pharmacy)</li> </ol>	<ol style="list-style-type: none"> <li>4. Liquor</li> <li>5. Deli</li> <li>6. Bakery</li> <li>7. No primary good</li> <li>8. Other: _____</li> </ol>
Are most of the foods pre-packaged or high-convenience (e.g., ready-to-eat, ready-to-heat) items?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>
Are most of the items sold in bulk?	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. No</li> </ol>
How would you categorize this store? <i>(Mark one)</i> <ol style="list-style-type: none"> <li>1. Bakery</li> <li>2. Grocery store or supermarket</li> <li>3. Deli</li> <li>4. Convenience store</li> <li>5. Drug store or pharmacy</li> <li>6. Dollar/Discount merchandise store</li> <li>7. Liquor store</li> </ol>	<ol style="list-style-type: none"> <li>8. Limited assortment store (discount grocery store)</li> <li>9. Fruit and vegetable market</li> <li>10. Meat or seafood market</li> <li>11. Supercenter</li> <li>12. Warehouse store</li> <li>13. Wholesale (member) club</li> <li>14. Other: _____</li> </ol>
Does the store have signs (inside or outside) in languages other than English (excluding store name)?	<ol style="list-style-type: none"> <li>1. Yes. What language?</li> <li>2. No</li> </ol>
Does the store have any of the following security features? <i>(Mark all that apply)</i> <ol style="list-style-type: none"> <li>1. Security guard</li> <li>2. Security camera</li> <li>3. Security bars (on doors or windows)</li> </ol>	<ol style="list-style-type: none"> <li>4. Bullet-proof or thick glass at check-out counter</li> <li>5. All check-out counters are enclosed with turnstile</li> <li>6. Security mirror</li> <li>7. None of the above</li> </ol>

Store ID: \_\_\_\_\_

Store cleanliness 1. Very clean 2. Somewhat clean	3. Somewhat dirty 4. Very dirty
What is the environment like <u>inside</u> the store? (Mark all that apply) 1. Visible trash/debris 2. Dirty floors 3. Foul odor	4. Secure, closed off (sometime elevated) area/office for store management 5. People "hanging out" or loitering 6. Panhandling 7. None of the above
Did you notice any of the following behaviors of the owner or employees? (Mark all that apply)	1. Swearing/cursing 2. Joking around/talking loud 3. Smoking 4. None of the above
<u>Observed</u> race/ethnicity of employees and owners: (Mark all that apply) 1. White 2. African American	3. Latino/Hispanic 4. Asian 5. Middle Eastern/Arab/Chaldean 6. Don't Know
Are there any ads for <u>tobacco</u> products on the storefront?	1. Yes 2. No
Are there any ads for <u>alcoholic</u> beverages on the storefront?	1. Yes 2. No
Is liquor (including beer or wine) the largest "sign" (including word) on the storefront?	1. Yes 2. No
What is the environment like <u>outside</u> of the store? (Mark all that apply) 1. Visible trash/debris 2. Broken glass 3. Graffiti 4. People "hanging out" or loitering	5. Panhandling 6. Sign for jitney 7. Shopping cart guard rails (prevent 8. Parking lot available 9. None of the above
Does the store sell any alcohol, including beer or wine?	1. Yes 2. No
Comments (Write extra comments on the back of the page):	

## Acknowledgements

**Portions of this instrument were adapted from:**

Baker EA, Schootman M, Barnidge E, Kelly C. 2006. The role of race and poverty in access to foods that enable individuals to adhere to dietary guidelines. *Preventing Chronic Disease* [serial online], 2006 July.

Glanz K, Sallis JF, Saelens BE, Frank LD. 2007. Nutrition environment measures survey in stores (NEMS-S): Development and evaluation. *American Journal of Preventive Medicine*, 32, 282-289.

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Zenk SN, Schulz AJ, Israel BA, James SA, Bao S, Wilson ML. 2006. Fruit and vegetable access differs by community racial composition and socioeconomic position in Detroit, Michigan. *Ethnicity & Disease*, 16, 275-280.

## Southwest Chicago Food Store Audit Instrument

Zenk SN, Grigsby-Toussaint D, Curry S, Berbaum M, Schneider L. (2010). Short-term temporal stability in observed retail food characteristics. *Journal of Nutrition Education and Behavior*, 42, 26-32.

Grigsby-Toussaint D, Zenk SN, Odoms-Young A, Ruggerio L. In press. Availability of commonly consumed and culturally specific fruits and vegetables in African-American and Latino neighborhoods. *Journal of the American Dietetic Association*.

The market assessment instrument developed by Community Health Councils, Inc. in partnership with REACH 2010 *African Americans Building a Legacy of Health* collaborative.